UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/669,070	. 09/23/2003	Mark David Murawski	VOCO / 10	2730
	26875 7590 07/18/2007 WOOD, HERRON & EVANS, LLP			
2700 CAREW TOWER			SAUNDERS JR, JOSEPH	
441 VINE STREET CINCINNATI, OH 45202			ART UNIT	PAPER NUMBER
<b></b> ,			2615	
		·	,	
			MAIL DATE	DELIVERY MODE
			07/18/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application No.	Applicant(s)			
		10/669,070	MURAWSKI ET AL.			
		Examiner	Art Unit			
		Joseph Saunders	2615			
 Period for I	The MAILING DATE of this communication appe Reply	ears on the cover sheet with the	correspondence address			
WHICH - Extension after SIX - If NO pe - Failure to Any repl	RTENED STATUTORY PERIOD FOR REPLY EVER IS LONGER, FROM THE MAILING DA ons of time may be available under the provisions of 37 CFR 1.13 (6) MONTHS from the mailing date of this communication. riod for reply is specified above, the maximum statutory period with or reply within the set or extended period for reply will, by statute, by received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  6(a). In no event, however, may a reply be to the apply and will expire SIX (6) MONTHS from the application to become ABANDON	DN.  timely filed  m the mailing date of this communication.  IED (35 U.S.C. § 133).			
Status						
1) 🛛 R	Responsive to communication(s) filed on <u>07 May 2007</u> .					
2a) <u></u> ⊤l	This action is FINAL. 2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is					
cl	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition	ı of Claims					
4a 5)□ C 6)⊠ C 7)□ C	laim(s) <u>1-63 and 66</u> is/are pending in the apple) Of the above claim(s) <u>64 and 65</u> is/are without laim(s) is/are allowed. laim(s) <u>1-63 and 66</u> is/are rejected. laim(s) is/are objected to. laim(s) are subject to restriction and/or	drawn from consideration.				
Application	ı Papers		·			
10)⊠ Th Al R	ne specification is objected to by the Examiner ne drawing(s) filed on <u>23 September 2003</u> is/a pplicant may not request that any objection to the deplacement drawing sheet(s) including the correctine oath or declaration is objected to by the Example 1.	re: ˈa)  accepted or b)  objedrawing(s) be held in abeyance. So on is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).			
Priority und	der 35 U.S.C. § 119					
a)	cknowledgment is made of a claim for foreign  All b) Some * c) None of:  Certified copies of the priority documents  Certified copies of the priority documents  Copies of the certified copies of the prioric application from the International Bureau ethe attached detailed Office action for a list of	s have been received. s have been received in Applica ity documents have been receiv (PCT Rule 17.2(a)).	ntion Noved in this National Stage			
Attachment(s)	,					
1) Notice of 2) Notice of 3) Informat	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) tion Disclosure Statement(s) (PTO/SB/08) to(s)/Mail Date 2-27-04.	4) Interview Summar Paper No(s)/Mail I 5) Notice of Informal 6) Other:				

Art Unit: 2615

# DETAILED ACTION

Page 2

1. This office action is in response to the response to restriction filed May 7, 2007.

Claims 1 – 63 and 66 directed to Species I and elected without traverse are currently pending and considered below. Claims 64 and 65 have been withdrawn from consideration.

### **Drawings**

2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: 12, 17, 19 of Figure 1, and 72 and 83 of Figure 2. Reference characters 80 and 82 are used in both Figure 2 and Figure 3 to designate two different components of the system, as a result reference characters 80 and 82 of Figure 2 should be changed and an appropriate description should be provided in the specification. Also in Figures 2 and 4 there are two occurrences of reference character 54, the occurrence designating the PC card slot is correct, the other occurrence designating the data bus should be corrected to 52. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New

Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

## Specification

3. The disclosure is objected to because of the following informalities: On page 20 line 13 the two occurrences of "central computer 86" should be corrected to "central computer 90". The same problem occurs on page 27 lines 4 – 5.

Appropriate correction is required.

#### Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1, 3, 5, 6, 8, 10, 12, 14, 19, 23, 25, 28, 40, 41, 45, 46, 48, 50, 52, 56, 57, 59, and 62 are rejected under 35 U.S.C. 102(b) as being anticipated by Helms (5,561,710), hereinafter Helms.

Claim 1: Helms discloses an apparatus comprising: a terminal (central station); a peripheral device (interactive voice communication terminal 10) for coupling to the terminal (central station) and having at least one line for directing audio signals to the

Art Unit: 2615

terminal (phone line); the peripheral device configured to forward a characterizing signal (DTMF signal) on the at least one line to the terminal (Figure 4).

Claim 19: <u>Helms</u> discloses a terminal (central station) for communicating with a peripheral device (interactive voice communication terminal 10) which has a line for sending audio signals (phone line), the terminal comprising: circuitry (DTMF decoder) operable for reading a characterizing signal (DTMF signal) from the audio signal line of a peripheral device (Figure 4).

Claim 40: Helms discloses a method for interfacing between a peripheral device (interactive voice communication terminal 10) and a terminal (central station) comprising: with a peripheral device having at least one line for directing audio signals (phone line) to the terminal, forwarding a characterizing signal (DTMF signal) to the terminal on the at least one line (Figure 4).

Claim 56: <u>Helms</u> discloses a method for interfacing between a peripheral device (interactive voice communication terminal 10) and a terminal (central station) comprising: with a terminal, reading (DTMF decoder) a characterizing signal (DTMF signal) from the audio signal line of a peripheral device (Figure 4).

Claim 3: <u>Helms</u> discloses the apparatus of claim 1 wherein the characterizing signal (DTMF signal) is associated with at least one of use ("communicating with an interactive

Art Unit: 2615

voice service system through a telephone system," Column 2 Lines 6 – 9), user, use group and location.

Claims 28, 41, and 57: Claims 28, 41, and 57 are substantially similar in scope to claim 3 and therefore are rejected for the same reasons.

Claim 5: <u>Helms</u> discloses the apparatus of claim 1 wherein the characterizing signal is an audio signal ("audio tones in the form of DTMF tones," Column 6 Lines 117 – 18).

**Claim 45:** Claim 45 is substantially similar in scope to claim 5 and therefore is rejected for the same reasons.

Claim 6: <u>Helms</u> discloses the apparatus of claim 1 wherein the terminal includes frequency analysis circuitry for processing the characterizing signal (DTMF decoder 52, Figure 4).

Claims 23 and 46: Claims 23 and 46 are substantially similar in scope to claim 6 and therefore are rejected for the same reasons.

Claim 8: <u>Helms</u> discloses the apparatus of claim 1 wherein the characterizing signal is one of a DTMF tone (DTMF signal, Abstract) and a PWM stream.

Claims 25, 48, and 59: Claims 25, 48, and 59 are substantially similar in scope to claim 8 and therefore are rejected for the same reasons.

Claim 10: <u>Helms</u> discloses the apparatus of claim 1 wherein the peripheral device includes a tone generator (DTMF generator 36, Figure 3) for generating audio tones to form the characterizing signal.

Claims 50 and 62: Claims 50 and 62 are substantially similar in scope to claim 10 and therefore are rejected for the same reasons.

Claim 12: <u>Helms</u> discloses the apparatus of claim 1 wherein the peripheral device has an input (key), the peripheral device forwarding the characterizing signal to the terminal when the input is engaged ("a key is depressed and the controller 34 then determines which sequence of DTMF tones need to be generated by the DTMF generator 36," Column 4 Lines 44 - 47).

Claim 52: Claim 52 is substantially similar in scope to claim 12 and therefore is rejected for the same reasons.

Claim 14: <u>Helms</u> discloses the apparatus of claim 1 wherein the peripheral device includes circuitry for generating the characterizing signal (DTMF generator 36), the circuitry being powered by a battery source (battery 44) in the peripheral device (Figure

Art Unit: 2615

3).

6. Claims 63 and 66 are rejected under 35 U.S.C. 102(b) as being anticipated by

Page 7

Hallikainen et al. (5,797,102), hereinafter Hallikainen.

Claim 63: Hallikainen discloses a terminal (mobile phone) for communicating with a

computer (it is inherent that in order to establish communication between two users a

mobile phone communicates with another computer), comprising: circuitry for controlling

the operation of the terminal (MCU), the circuitry configured to read a characterizing

parameter (identification code, Column 3 Lines 23 – 41) from a peripheral device

(auxiliary device) coupled to the terminal; the circuitry further configured to make the

terminal operate according to at least one operational parameter (amplification

parameter) associated with the characterizing parameter of the peripheral device

(Column 1 Lines 45 – 50).

Claim 66: Hallikainen discloses the terminal of claim 63 and further discloses wherein

the characterizing parameter is associated with at least one of a use (identification of

the auxiliary device, Column 1 Lines 43 – 50 and Column 3 Lines 23 – 41), user, user

group and location.

Application/Control Number: 10/669,070 Page 8

Art Unit: 2615

## Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 2, 20, and 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Helms</u> in view of Roy et al. (US 2003/0142814 A1), hereinafter <u>Roy</u>.

Claim 2: Helms discloses the apparatus of claim 1 but *does not disclose* wherein the terminal is configured for associating an operational parameter for the terminal with the characterizing signal of the peripheral device. Helms does disclose that the terminal (central station) is configured for data entry services through communication with the characterizing signal (DTMF signal) of the peripheral device (Column 5 Lines 25 – 46).

Roy discloses a similar system for using DTMF signals for communicating with a processor (Paragraph 28). Roy discloses that the terminal (processor) is configured for associating an operational parameter (sound level control) for the terminal with the characterizing signal (DTMF signal) of the peripheral device. Therefore it would have been obvious to one of ordinary skill in the art to incorporate the ability of associating operational parameters of a terminal with a characterizing signal as disclosed by Roy in the system of Helms since doing so allows for remote control of operational parameters of the terminal (Paragraph 31).

Claims 20 and 42: Claims 20 and 42 are substantially similar in scope to claim 2 and therefore are rejected for the same reasons.

9. Claims 7, 9, 24, 26, 47, 49, and 56 are rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Helms</u> in view of Fujisaki (4,853,953), hereinafter <u>Fujisaki</u>.

Claims 7 and 9: Helms discloses the apparatus of claim 6 and further discloses wherein the peripheral device or communication terminal 82 may incorporate components into a handset (Column 6 Lines 62 – 65) and the peripheral device also uses a microphone line or phone line to forward the characterizing signal. Helms does not disclose wherein the frequency analysis circuitry includes speech recognition circuitry and does not disclose the device taking the form of a headset. Fujisaki discloses a voice controlled dialer in which speech is the characterizing signal to be transferred over a microphone line and uses a speech recognizer 2 to translate speech into multifrequency tone control signals (Column 2 Lines 18 – 32). Therefore it would have been obvious to one of ordinary skill in the art to include speech recognition capabilities as disclosed by <u>Fujisaki</u> in the system of <u>Helms</u>, since Helms terminal is already capable of decoding DTMF signals, having speech recognition circuitry that can translate speech into DTMF control signals before being decoded in the terminal would allow for hands free operation of the system by the user. Since the system would then offer hands free operation, the office takes Official Notice that it would have been

obvious to one of ordinary skill in the art to design the handset as disclose by the system of <u>Helms</u> and <u>Fujisaki</u> to be worn on the head in the form of a headset since headset were well known in the art at the time of as an alternate input device to a handset thereby allowing hands-free operation.

Claims 24, 26, 47, 49, and 56: Claims 24, 26, 47, 49, and 56 are substantially similar in scope to claim 7 and 9 and therefore are rejected for the same reasons.

10. Claims 1, 4, 11, 13, 15 – 22, 27, 29 – 40, 42 – 44, 51, 53 – 56, 58, 60, and 61 are rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Hallikainen</u> in view of <u>Helms</u>.

Claims 1 and 4: Hallikainen discloses an apparatus comprising: a terminal (mobile phone); a peripheral device (auxiliary device) for coupling to the terminal (mobile phone) and having at least one line for directing audio signals to the terminal (audio line, Figure 4); the peripheral device configured to forward a characterizing signal; wherein the characterizing signal is reflective of an ID of the peripheral device (identification code, Column 3 Lines 23 – 41). Hallikainen does not disclose wherein the identification data is forwarded on the audio line to the terminal. Helms discloses a method of passing information over an audio line from a handset to a processor for the purposes of data entry using DTMF signals (Column 5 Lines 25 – 46). It would have been obvious to one of ordinary skill in the art at the time of the invention to use DTMF signals as disclosed by Helms to communicate between a peripheral and a processor in the system

disclosed by <u>Hallikainen</u>, thereby reducing the necessity of an additional data line as disclosed in Figure 4 of <u>Hallikainen</u>, since the information sent over the data line can be sent over the audio line in the technique disclosed by <u>Helms</u>.

Claims 19 – 22: Hallikainen discloses a terminal (mobile phone) for communicating with a peripheral device (auxiliary device) which has a line for sending audio signals (audio line, Figure 4) wherein the terminal comprising: circuitry (MCU) operable for reading a characterizing signal; circuitry operable for configuring the terminal to operate according to at least one operational parameter (amplification parameter) associated with the characterizing signal; wherein the operational parameter is stored in memory (data for each auxiliary device is stored in memory) which is accessed according to the characterizing signal (identification data supplied by interface data line) (Column 2 Lines 1 – 46); wherein the characterizing signal is reflective of an ID of the peripheral device (identification code, Column 3 Lines 23 – 41). Hallikainen does not disclose wherein the identification data is forwarded on the audio line to the terminal. Helms discloses a method of passing information over an audio line from a handset to a processor for the purposes of data entry using DTMF signals (Column 5 Lines 25 – 46). It would have been obvious to one of ordinary skill in the art at the time of the invention to use DTMF signals as disclosed by Helms to communicate between a peripheral and a processor in the system disclosed by Hallikainen, thereby reducing the necessity of an additional data line as disclosed in Figure 4 of Hallikainen, since the information sent over the data line can be sent over the audio line in the technique disclosed by Helms.

Art Unit: 2615

Claims 29 and 30: Hallikainen discloses a peripheral device (auxiliary device) for use with a terminal (mobile phone) comprising: circuitry (processor) and at least one line (audio line, Figure 4) for directing audio signals to the terminal (audio line, Figure 4); the circuitry configured to forward a characterizing signal (identification code, Column 3 Lines 23 – 41) for configuring the operation of the terminal (amplification parameters, Figure 1). Hallikainen does not disclose wherein the identification data is forwarded on the audio line to the terminal. Helms discloses a method of passing information over an audio line from a handset to a processor for the purposes of data entry using DTMF signals (Column 5 Lines 25 – 46). It would have been obvious to one of ordinary skill in the art at the time of the invention to use DTMF signals as disclosed by Helms to communicate between a peripheral and a processor in the system disclosed by Hallikainen, thereby reducing the necessity of an additional data line as disclosed in Figure 4 of Hallikainen, since the information sent over the data line can be sent over the audio line in the technique disclosed by Helms.

Claims 40, 42, and 44: <u>Hallikainen</u> discloses a method for interfacing between a peripheral device (auxiliary device) and a terminal (mobile phone) comprising: with a peripheral device having at least one line for directing audio signals to the terminal (audio line, Figure 4), forwarding a characterizing signal to the terminal (identification code, Column 3 Lines 23 – 41); wherein the terminal is configured to associate an operational parameter (amplification parameter) of the terminal with the characterizing

signal (identification code). <u>Hallikainen</u> does not disclose wherein the identification data is forwarded on the audio line to the terminal. <u>Helms</u> discloses a method of passing information over an audio line from a handset to a processor for the purposes of data entry using DTMF signals (Column 5 Lines 25 – 46). It would have been obvious to one of ordinary skill in the art at the time of the invention to use DTMF signals as disclosed by Helms to communicate between a peripheral and a processor in the system disclosed by <u>Hallikainen</u>, thereby reducing the necessity of an additional data line as disclosed in Figure 4 of <u>Hallikainen</u>, since the information sent over the data line can be sent over the audio line in the technique disclosed by <u>Helms</u>.

Claim 56: Hallikainen discloses a method for interfacing between a peripheral device (auxiliary device) and a terminal (mobile phone) comprising: with a terminal, reading a characterizing signal (identification code, Column 3 Lines 23 – 41) from the peripheral device. Hallikainen does not disclose wherein the identification data is forwarded on the audio line to the terminal. Helms discloses a method of passing information over an audio line from a handset to a processor for the purposes of data entry using DTMF signals (Column 5 Lines 25 – 46). It would have been obvious to one of ordinary skill in the art at the time of the invention to use DTMF signals as disclosed by Helms to communicate between a peripheral and a processor in the system disclosed by Hallikainen, thereby reducing the necessity of an additional data line as disclosed in Figure 4 of Hallikainen, since the information sent over the data line can be sent over the audio line in the technique disclosed by Helms.

Claim 11: <u>Hallikainen</u> and <u>Helms</u> disclose the apparatus of claim 1 and <u>Hallikainen</u> further discloses wherein the peripheral device is configured to automatically forward the characterizing signal to the terminal when it is coupled to the terminal ("the auxiliary device can transmit the identification message automatically ... after connection", Column 5 Lines 25 – 46).

Claims 27, 35, 51, and 60: Claims 27, 35, 51, and 60 are substantially similar in scope to claim 11 and therefore is rejected for the same reasons.

Claim 13: Hallikainen and Helms disclose the apparatus of claim 1 wherein the peripheral device includes circuitry for generating (Helms, DTMF generator 36) the characterizing signal. Hallikainen and Helms do not disclose the circuitry being powered by the terminal. Helms does disclose that "the entire system is powered by a battery 44 or some type of power source," Column 4 Lines 24 – 25. The office takes official notice that in the case where a device is coupled to a telephone network as in Figure 7A of Helms by a physical line that the telephone, communication terminal 82, or any other circuitry connected to the terminal or central station may receive power over the line. Therefore give that Helms discloses using other types of power sources it would have been obvious to one of ordinary skill in the art at the time of the invention to obtain power over the physical line from the central station therefore eliminating the need for a battery.

**Claim 37:** Claim 37 is substantially similar in scope to claim 13 and therefore is rejected for the same reasons.

Claim 15: <u>Hallikainen</u> and <u>Helms</u> disclose the apparatus of claim 1 and <u>Hallikainen</u> further discloses wherein operational parameters (amplification parameters, Figure 1) for the terminal are stored in memory (data for each auxiliary device is stored in memory), the terminal operable for accessing the memory using the characterizing signal (identification data supplied by interface data line) (Column 2 Lines 1 – 46).

**Claim 53:** Claim 53 is substantially similar in scope to claim 15 and therefore is rejected for the same reasons.

Claim 16: <u>Hallikainen</u> and <u>Helms</u> disclose the apparatus of claim 1 and <u>Hallikainen</u> further discloses wherein the operational parameters are in a menu (memory containing auxiliary device and amplification parameters, Figure 1), the terminal operable for accessing the menu based upon the characterizing parameter (identification code, Column 3 Lines 23 – 41).

Claim 54: Claim 54 is substantially similar to claim 16 and therefore is rejected for the same reasons.

Claim 17: <u>Hallikainen</u> and <u>Helms</u> disclose the apparatus of claim 1 and <u>Hallikainen</u> further discloses wherein the operational parameters include at least one from the group of voice templates, volume preferences (amplification parameters, Figure 1), and text-to-speech preferences.

**Claim 55:** Claim 55 is substantially similar in scope to claim 17 and therefore is rejected for the same reasons.

Claim 18: <u>Hallikainen</u> and <u>Helms</u> disclose the apparatus of claim 1 and <u>Hallikainen</u> further discloses wherein said terminal is configured for coupling with multiple different peripheral devices (auxiliary devices 1 through N, Figure 1), the terminal being configurable to operate with multiple operational parameters (amplification parameters for reception and transmission, Figure 1) associated with the peripheral device characterizing signals of the peripheral devices.

Claims 43 and 58: Claims 43 and 58 are substantially similar in scope to claim 18 and therefore is rejected for the same reasons.

Claim 31: <u>Hallikainen</u> and <u>Helms</u> disclose the peripheral device of claim 29 and <u>Helms</u> further discloses wherein the characterizing signal is an audio signal ("audio tones in the form of DTMF tones," Column 6 Lines 117 – 18).

Art Unit: 2615

Claim 32: <u>Hallikainen</u> and <u>Helms</u> disclose the peripheral device of claim 29 and <u>Helms</u> further discloses wherein the characterizing signal is one of a DTMF tone (DTMF signal, Abstract) and a PWM stream.

Claim 33: <u>Hallikainen</u> and <u>Helms</u> disclose the peripheral device of claim 29. <u>Hallikainen</u> further discloses wherein the peripheral device is an earpiece, hand free unit, or handheld telephone and <u>Helms</u> further teaches wherein the peripheral device uses a microphone line or phone line to forward the characterizing signal.

Claim 61: Claim 61 is substantially similar in scope to claim 33 and therefore is rejected for the same reasons.

Claim 34: <u>Hallikainen</u> and <u>Helms</u> disclose the peripheral device of claim 29 and <u>Helms</u> further discloses wherein the peripheral device includes a tone generator (DTMF generator 36, Figure 3) for generating audio tones to form the characterizing signal.

Claim 36: <u>Hallikainen</u> and <u>Helms</u> disclose the peripheral device of claim 29 and <u>Helms</u> further discloses wherein the peripheral device has an input (key), the peripheral device forwarding the characterizing signal to the terminal when the input is engaged ("a key is depressed and the controller 34 then determines which sequence of DTMF tones need to be generated by the DTMF generator 36," Column 4 Lines 44 - 47).

Claim 38: <u>Hallikainen</u> and <u>Helms</u> disclose the peripheral device of claim 29 and <u>Helms</u> further discloses wherein the circuitry is powered by a battery source (battery 44) in the peripheral device.

Page 18

Claim 39: <u>Hallikainen</u> and <u>Helms</u> disclose the peripheral device of claim 29 and <u>Hallikainen</u> and <u>Helms</u> further disclose wherein the characterizing signal (identification code sent via DTMF signal) is associated with at least one of use (communication between a peripheral and a processor), user, user group and location.

## Conclusion

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Saunders whose telephone number is (571). 270-1063. The examiner can normally be reached on Monday - Thursday, 9:00 a.m. - 4:00 p.m., EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sinh Tran can be reached on (571) 272-7564. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2615

Page 19

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JS

June 27, 2007

SINH TRAN SUPERVISORY PATENT EXAMINER